

Comparison of MetAP2 Homologues (mouse = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15	16	30	31	45	46	60	61	75	76	90
mouse	MAGVEQAASFGGHLN	GDLDPDDREEGTST	AEAAKKRRRKKKKG	KGAVSAVQQLDKES	GALVDEVAKQLESQA	LEEKERDDDDDEGDG					90
rat	MAGVEEASSFGGHLN	RDLDPDDREEGTST	AEAAKKRRRKKKKG	KGAVSAGQQLDKES	GTSVDEVAKQLERQA	LEEKEKDDDDDEGDG					90
human	MAGVEEVAASGSHLN	GDLDPDDREEGAAT	AEAAKKRRRKKKKK	KGPSAAGEQEPDKES	GASVDEVARQLERSA	LEDKERDEDEDEGDG					90
yeast	ESKKKKKKKKKKKK	N-----VKKI	ELLPDGKYPEGAWM	DYHQDFNLQRTTDEE	SRYLKRDLERA--EH	WNDVRKGAEIHRVR					116
91	105	106	120	121	135	136	150	151	165	166	180
mouse	DADGATGKKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WINDFREAAEAHRQVR					180
rat	DGDGAAGKKKKKKKK	KRGPRVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WINDFREAAEAHRQVR					180
human	DGDGATGKKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WINDFREAAEAHRQVR					180
yeast	ESKKKKKKKKKKKK	N-----VKKI	ELLPDGKYPEGAWM	DYHQDFNLQRTTDEE	SRYLKRDLERA--EH	WNDVRKGAEIHRVR					116
181	195	196	210	211	225	226	240	241	255	256	270
mouse	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIDC					263
rat	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIDC					263
human	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIDC					263
yeast	RAIKDRIVPGMKLMD	IADMIENTTRKYTGA	ENLLAMEDPKSQIG	FPTGLSLNHCAAHFT	PNAGDKTVLKYEDVM	KVDYGVQVNGNIIDS					206
271	285	286	300	301	315	316	330	331	345	346	360
mouse	AFTVTFNPKYDILLT	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT					353
rat	AFTVTFNPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT					353
human	AFTVTFNPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT					353
yeast	AFTVSFDPQPDNLLA	AVKDATYTGIKEAGI	DVRLTDIGEAIQEV	ESYEVEINGETIYQVK	PCRNLCGHSIAPYRI	HGGKSVPIVKNGDIT					296
361	375	376	390	391	405	406	420	421	435	436	450
mouse	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
rat	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
human	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
yeast	KMEEGEHFAIETFGS	TGRGYVTAGGEVSHY	ARSAEDHQVMPITLDS	AKNLLKTIDRNFGLT	PFCRRYLDRLGQEKY	LFALNNLVRHGLVQD					386
451	465	466	480								
mouse	YPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--								
rat	YPPLCDIKGSYTAQF	EHTILCAQPVKKLSA	EEMTIKT								
human	YPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--								
yeast	YPPLNDIPGSYTAQF	EHTILLHAHKKEVVS	KGDDY--								

Figure 1

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MetAP2

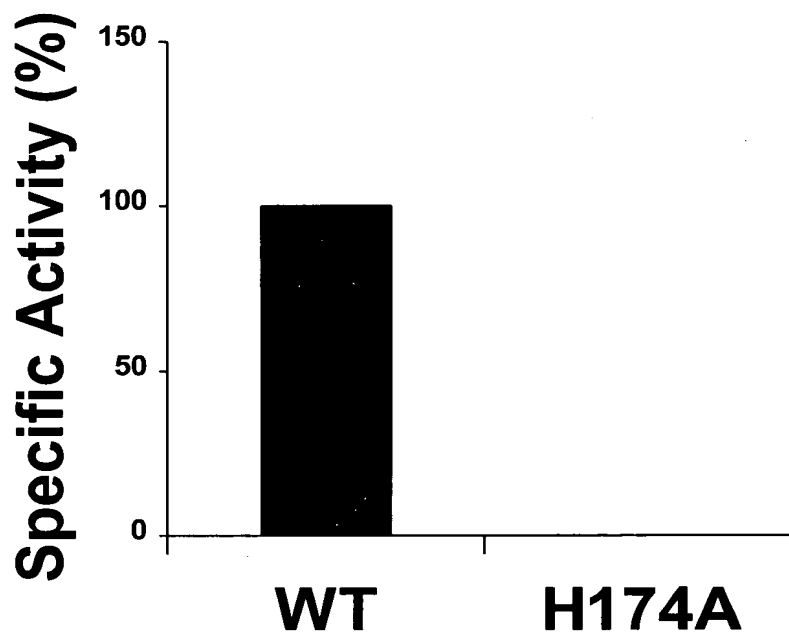
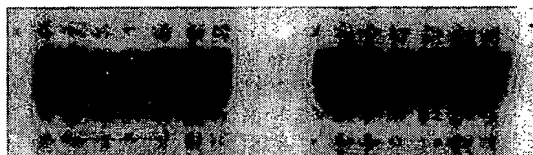
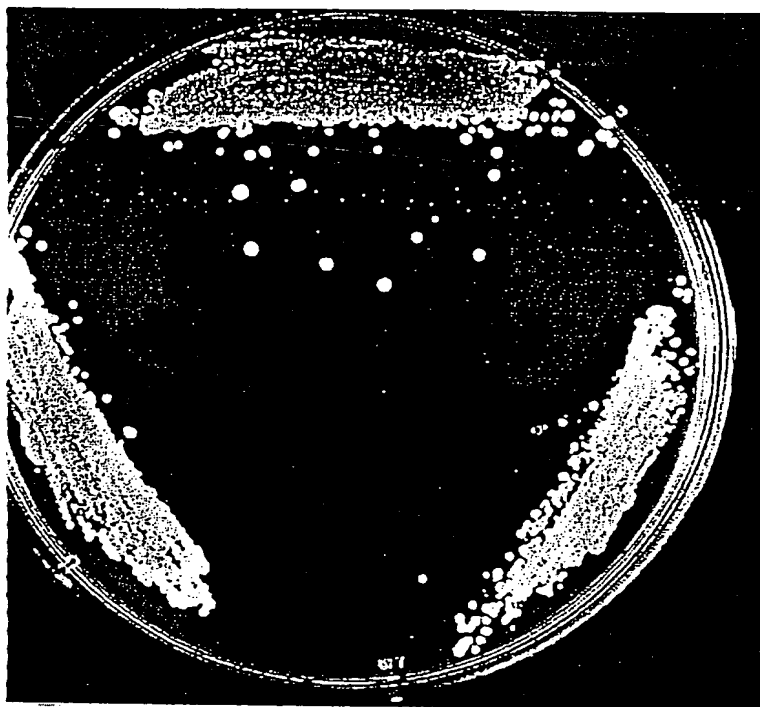
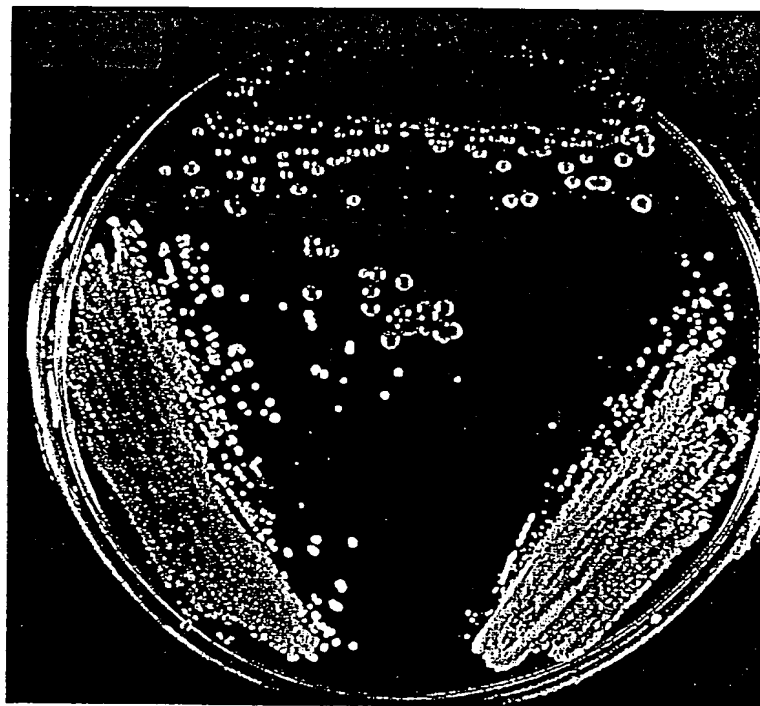


Figure 2



A. Glucose



B. Galactose

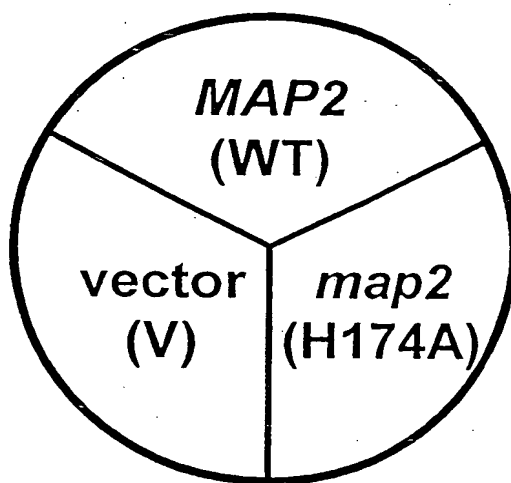


FIGURE 3

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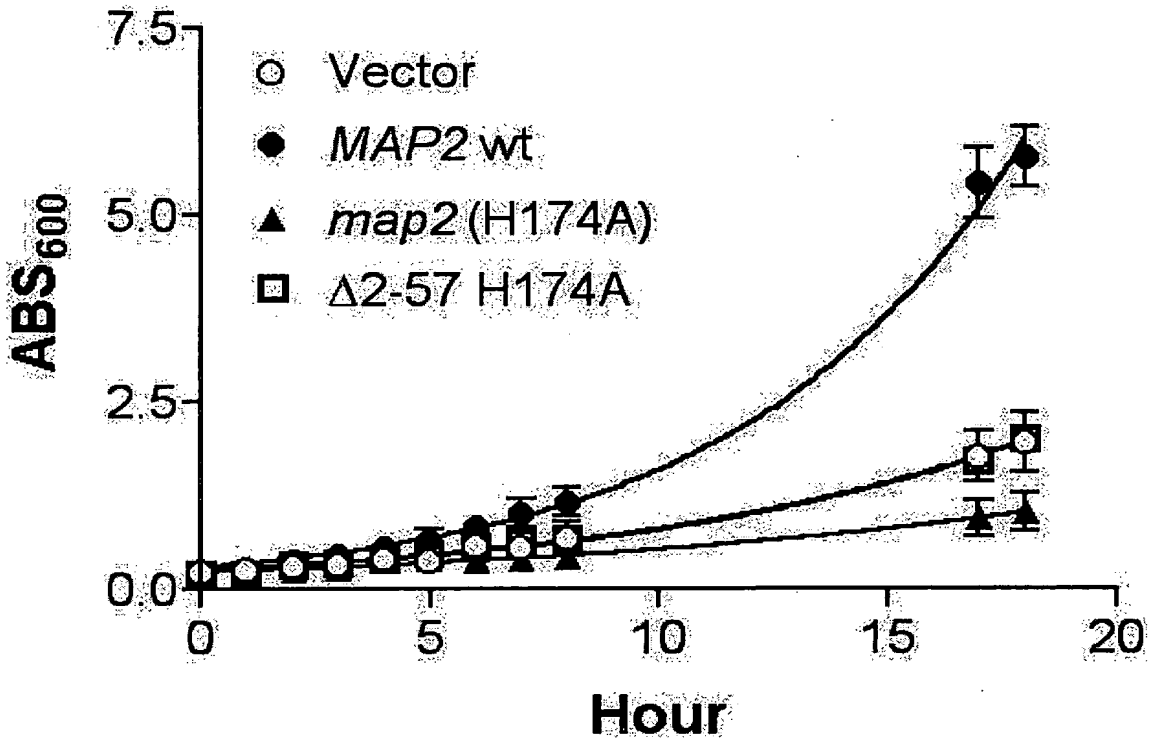
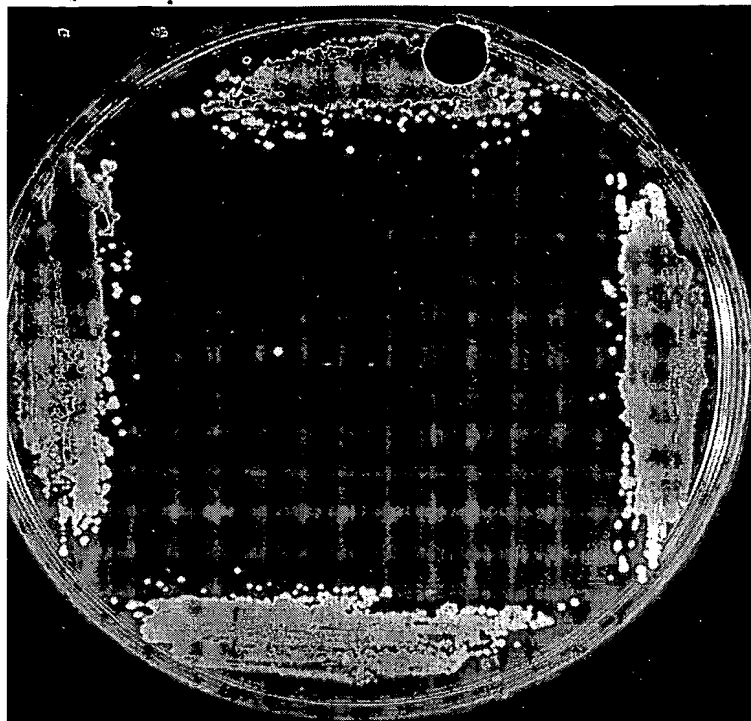
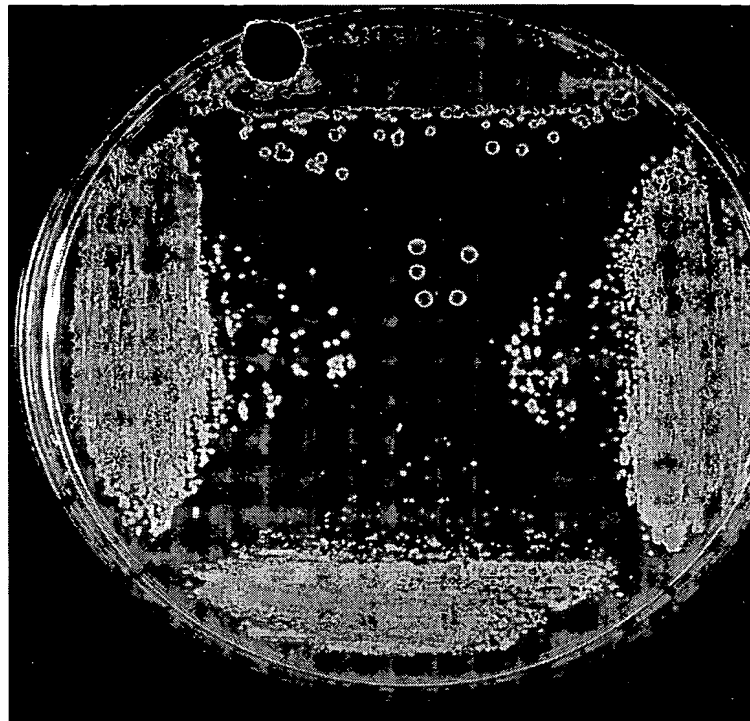


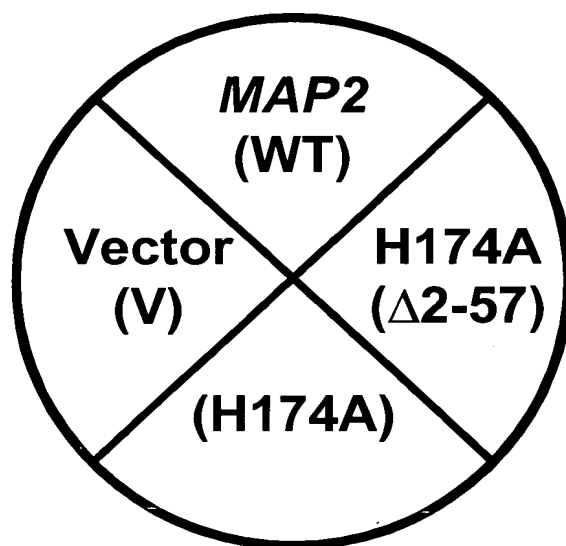
Figure 4



A. Glucose



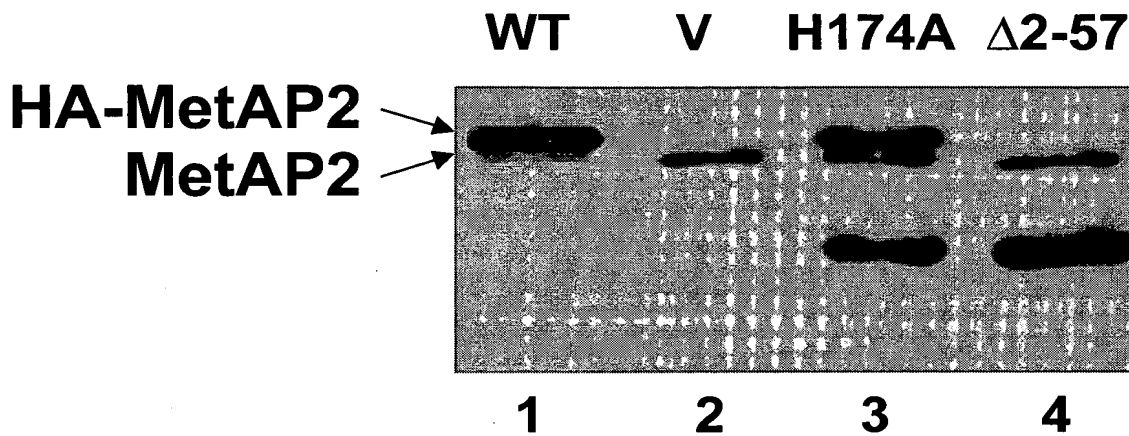
B. Galactose



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1Δ* growth under the *GAL1* promoter.

Figure 5

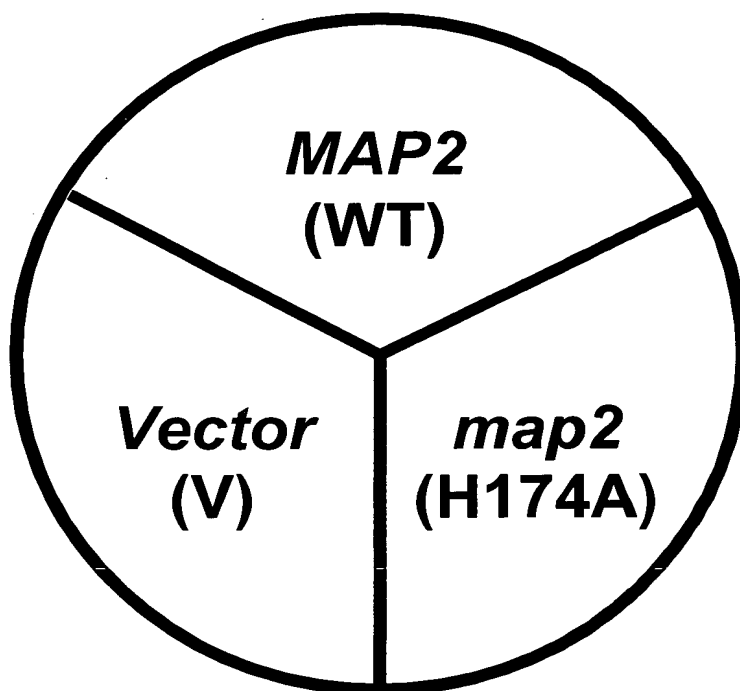
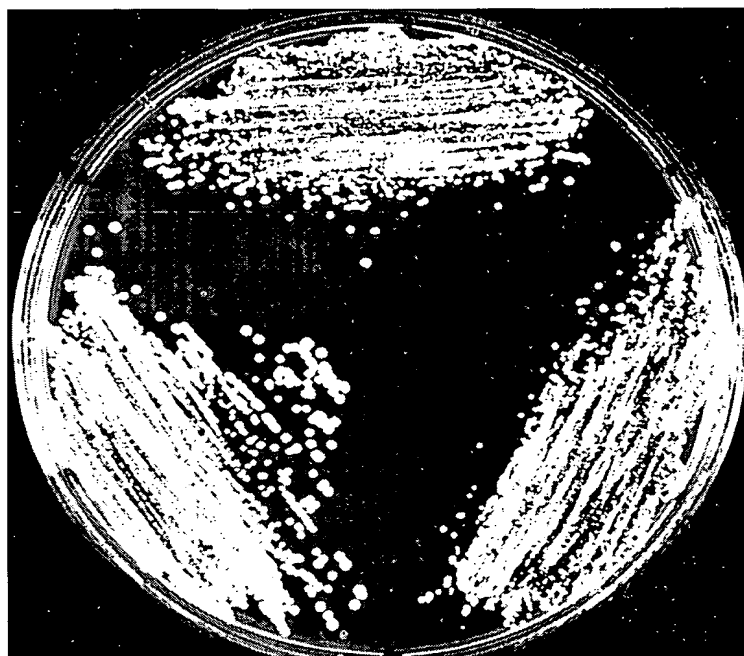
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The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ2-57 H174A steady state levels in *map1Δ*.

Figure 6

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Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of *map2Δ*

Figure 7

hMAP2 cDNA

(anti-sense)
(sense)

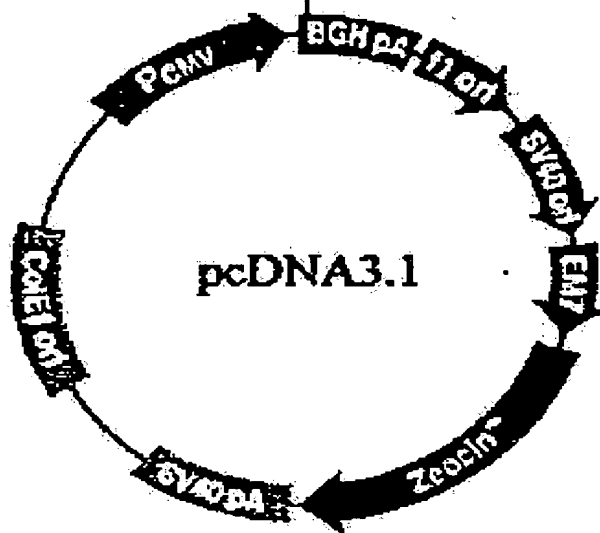


Figure 8

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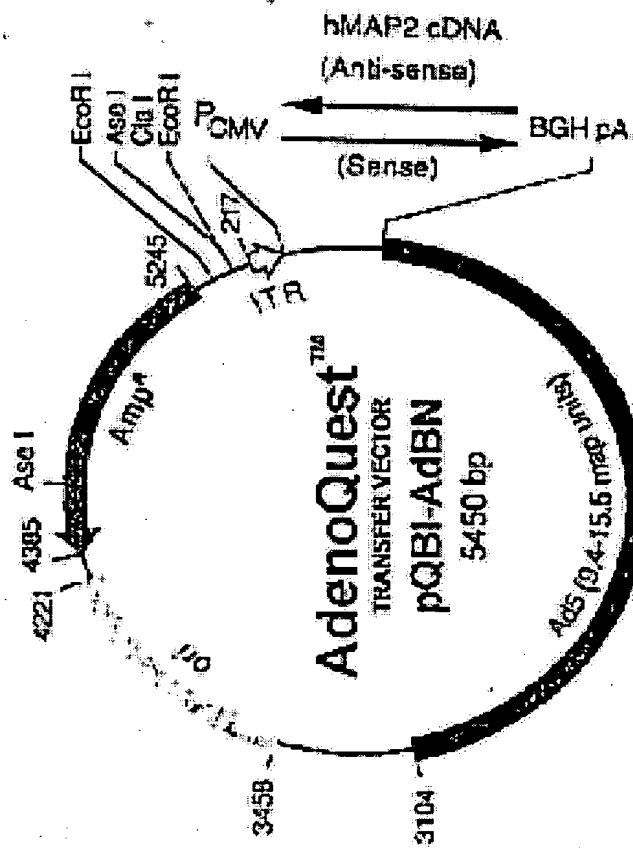


Figure 9

FOOEBO* EET E7660

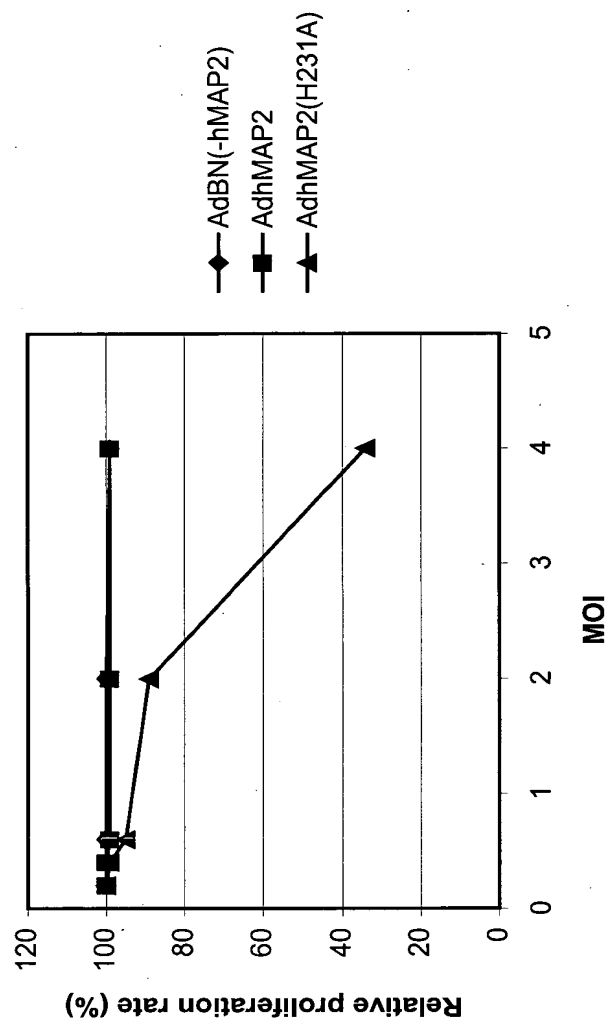


Figure 10

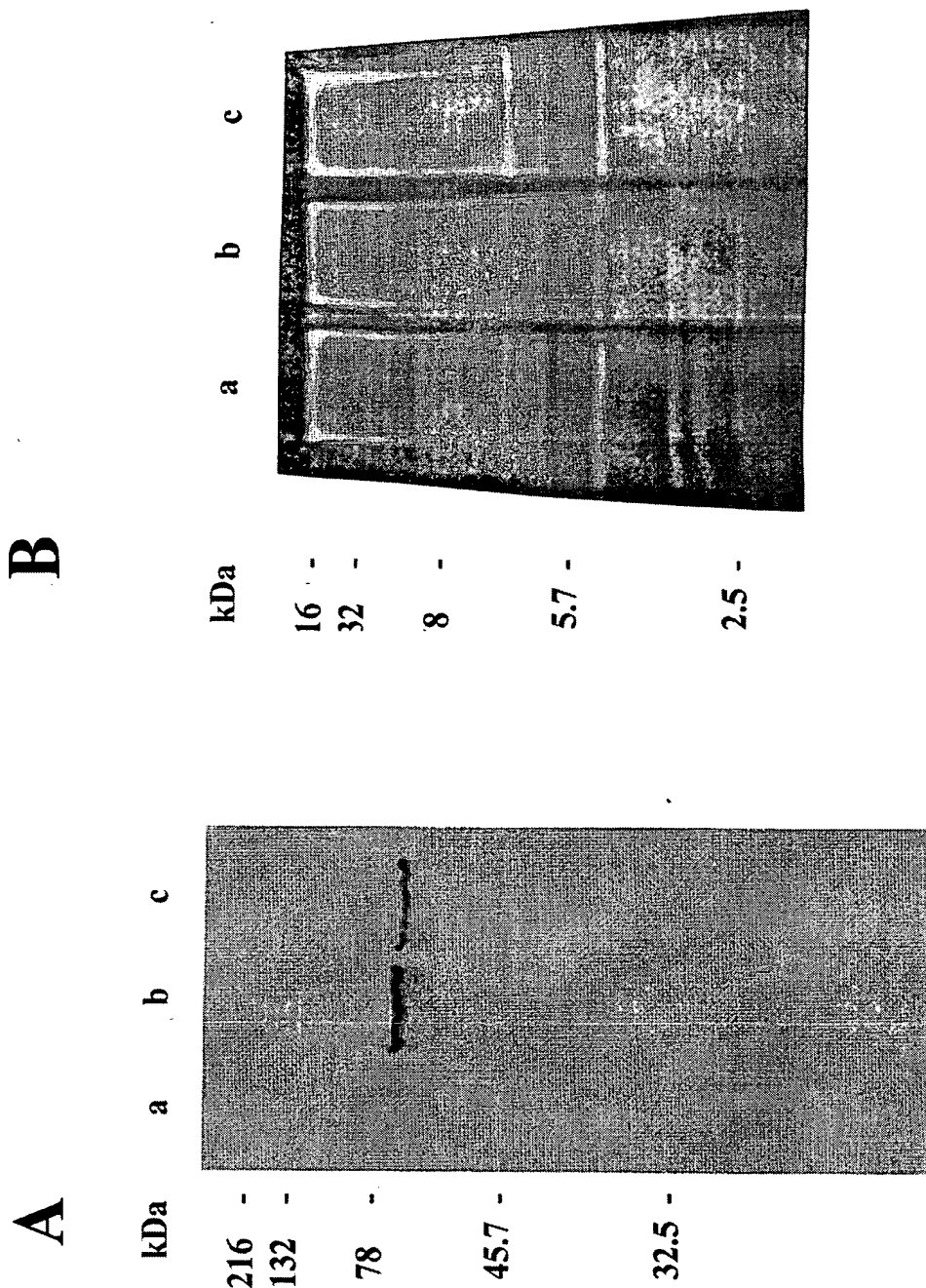


Figure 11